WBLE-SL ▶ UECM3463-202206-EZZ ▶ Quizzes ▶ 202206UECM34630E3b ▶ Review of preview  Update this Qui.								
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		202206UECM34630E3b						
		Start again						
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Started on	Sunday, 14 August 2022, 04:56 PM	Review of preview						
	Sunday, 14 August 2022, 04:56 PM							
Time taken								
Grade	<b>0</b> out of a maximum of 10 ( <b>0</b> %)							
<b>1</b> 🔽 Marks: 1	For a certain insurance, individual los each loss. Determine the standard de	ses in 2020 were Pareto distributed with parameters $\alpha=3$ and $\theta=1400$ . A deductible of 140.0 is applied to each loss. In 2021, individual losses have increased 5%. A deductible of 140.0 is still applied viation of amount paid per loss	d to					
	Answer:	x						
	Make comment or override grade							
	Incorrect							
	Correct answer: 1625503.97  Marks for this submission	: 0/1.						
		· · · · ·						
2 🕏 Marks: 1	Let the frequency distribution be nega	ative binomial with $r = 3$ and $\beta = 4$ . Let the severity distribution has the exponential distribution with mean 40. Determine E(S $^{\wedge}$ 400).						
	Answer:	x						
	Make comment or override grade							
	Incorrect Correct answer: 311.1							
	Marks for this submission	: 0/1.						
3 🕏	You are given:							
Marks: 1	<ul> <li>Claim counts per year follow a</li> <li>Claim sizes follow a Pareto dist</li> <li>Claim counts and claim sizes ar</li> </ul>							
	A stop-loss reinsurance contract reins	sures 100% of the losses above an aggregate limit u. Using the normal approximation, determine the u for which the probability that aggregate claims are greater than u is 5%						
	Answer:	x						
	Make comment or override grade							
	Incorrect							
	Correct answer: 40876.538687  Marks for this submission	• 0/1						
	marks for this submission	, v/ ±.						
4 👺	Let the frequency distribution be nega	ative binomial with $r = 4$ and $\beta = 3$ . Let the severity distribution has the exponential distribution with mean 27. Determine $F_S(34)$ .						

Marks: 1

	Answer:		<u>x</u>					
	Make comment or override grade							
	Incorrect Correct answer: 0.0269							
	Marks for this submission	: 0/1.						
	•							
<b>5</b> 🕏 Marks: 1	Claim sizes follow an exponential distribution with $\theta$ =4.50. Claim counts are independent of claim sizes, and have the following distribution: $ \begin{array}{c c c c c c c c c c c c c c c c c c c $							
	Calculate F <sub>S</sub> (8)	- 110110 (0.12) (0.12) (0.12)						
	Answer:		<u>x</u>					
	Make comment or override grade							
	Incorrect Correct answer: 0.800836							
	Marks for this submission	: 0/1.						
<b>6</b> 👺 Marks: 1	A random variable has an exponentia	distribution with mean 20. It is to be discretized using the method of rounding with span 70. Determine the mean of the	e discretized distribution					
	Answer:		ا ا					
	l		<b>X</b>					
	Make comment or override grade Incorrect							
	Correct answer: 12.54294							
	Marks for this submission	: 0/1.						
<b>7</b> 🗹 Marks: 1	Prescription drug losses, S, are modeled assuming the number of claims has a geometric distribution with mean 10.00, and the amount of each prescription is 64. Calculate E[(S-160)+]							
	carcarace E[(S 100)+]							
	Answer:		<u>بر</u> [					
			1^					
	Make comment or override grade Incorrect							
	Correct answer: 504.883546	. 0/1						
	Marks for this submission	. 0/1.						
<b>8</b> 🖢 Marks: 1	Claim counts follow a Poisson distribution with mean 3. Claim sizes follow an exponential distribution with $\theta$ = 600. This severity distribution is discretized using the method of rounding with span 50. Claim counts and claim sizes are independent. A stop-loss reinsurance contract has a deductible of 130.0. Calculate expected losses paid by the reinsurance contract.							
	Answer:		] <i>x</i>					
	Make comment or override grade							
	Incorrect Correct answer: 1810.7693							
	Marks for this submission	: 0/1.						
9 🕏	A company provides insurance to a co	oncert hall for losses due to power failure. You are given:						
Marks: 1								
	<ul> <li>The distribution of loss amount</li> </ul>							
		due to a single power failure is:						

Calculate the expected amount of clai	ms paid by the insurer in one year		
Answer:		] <b>x</b>	
Make comment or override grade Incorrect Correct answer: 44.239649 Marks for this submission	: 0/1.		
A stop-loss reinsurance pays 80% of the excess of aggregate claims above 1,090, subject to maximum payment of 440. For aggregate claims, S, you are given:  • E[(S-1,090) <sub>+</sub> ] = 470  • E[(S-2,180) <sub>+</sub> ] = 235  • The probability of an aggregate claim amount between 1,090 and 2,180 is zero.  Determine the total amount of claims the reinsurer expects to pay			
Answer:		] <b>x</b>	
Make comment or override grade Incorrect Correct answer: 94.862385 Marks for this submission	: 0/1.		
	Answer:  Make comment or override grade Incorrect Correct answer: 44.239649 Marks for this submission  A stop-loss reinsurance pays 80% of to E[(S-1,090)+] = 470 E[(S-2,180)+] = 235 The probability of an aggregate Determine the total amount of claims  Answer:  Make comment or override grade Incorrect Correct answer: 94.862385	Make comment or override grade Incorrect Correct answer: 44.239649 Marks for this submission: 0/1.  A stop-loss reinsurance pays 80% of the excess of aggregate claims above 1,090, subject to maximum payment of 440. For aggregate claims, S, you are giv  • E[(S-1,090)_+] = 470 • E[(S-2,180)_+] = 235 • The probability of an aggregate claim amount between 1,090 and 2,180 is zero.  Determine the total amount of claims the reinsurer expects to pay  Answer:  Make comment or override grade Incorrect	

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